J. Electroanal. Chem., 287 (1990) 395
Elsevier Sequoia S.A., Lausanne

Author index

Anderson, M.W. 253
Arvia, A.J. 1,99

Bałkowska, A. 225
Beden, B. 81

Chacha, J.S. 13
Chevalet, J. 215
Chigami, A. 239
Conway, B.E. 13
Custidiano, E. 1

Fatouros, N. 215
Fleischmann, M. 293
Forster, R.J. 185
Fuchigami, T. 385

Gavach, C. 43
Gierulska, D. 265
Giordano, M.C. 99
González-Velasco, J. 99
Goto, N. 249
Gunasingham, H. 349

Hachkar, M. 81
Hawkins, M. 293
Hurwitz, H.D. 43

Ikeda, O. 179
Inzelt, G. 171

Jiang, M. 389
Jüttner, K. 203

Keita, B. 149
Kelly, A.J. 185
Kharkats, Y.I. 363
Kita, H. 163
Kobayashi, H. 239
Krulic, D. 215
Kunugi, Y. 385
Kuramoto, N. 191

Lamy, C. 81
López Teijelo, M. 369
Lorenz, W.J. 203

Makrlík, E. 159
Małyszko, J. 265
Marcos, M.L. 99
Matsumura, S. 385
McBreen, J. 279
McEvoy, A.J. 191
Michaelson, J.C. 191

Nadjo, L. 149
Ng, H.-M. 349
Nonaka, T. 385

Ohsaka, T. 185
Ohtsuka, T. 249
Oikonomou, A. 43
Okazaki, K. 163
Ortiz, P.I. 369
Osteryoung, J. 125
Oyama, N. 185

Persson, B. 61
Pinkowski, A. 203
Plastino, A. 1
Pons, S. 293
Pourcelly, G. 43

Rebollo Neira, L. 1
Retter, U. 363
Ribes, A.J. 125
Rolison, D.R. 375

Sakurai, T. 179
Sato, N. 249
Shirota, Y. 179
Szymański, G. 229

Takeda, N. 239
Tan, C.-H. 349
Trzaskoma, P.P. 375
Tsubomura, H. 239

Uosaki, K. 163

Vaňura, P. 159
Vara, J.M. 99
Vos, J.G. 185

Werblan, L. 229
Zhao, Z. 389
Zhou, X. 389

J. Electroanal. Chem., 287 (1990) 396–399
Elsevier Sequoia S.A., Lausanne

Subject index

Adatom electrodesorption
An inversion method based on information theory applied to quantitative analysis of complex H-adatom electrodesorption voltammograms (Arvia et al.) 1
Adatom arrays
Solvent effect in electrochemical formation of adatom arrays of Pb on Au and the role of coadsorption of anions (Conway, Chacha) 13
Alcohols
Electrolysis using composite-plate electrodes. Part II. Electrooxidation of alcohols at a hydrophobic nickel/poly(tetrafluoroethylene) composite-plated anode (Kunugi et al.) 385
Anion coadsorption
Solvent effect in electrochemical formation of adatom arrays of Pb on Au and the role of coadsorption of anions (Conway, Chacha) 13

Bipyridine
Contribution to the thermodynamics of complexes of nickel(II), iron(II) and iron(III) with 1,10-phenanthroline and 2,2′-bipyridine in the two-phase water–nitrobenzene extraction system (Makrlík, Vañura) 159
Borate solutions
Anodic dissolution of tungsten in alkaline buffered borate solutions (Ortiz, López-Teijelo) 369
Butyrolactone
Conductivities of lithium salts in a mixed solvent: comparison of conductance equations for their analysis (Bałkowska et al.) 229

Calorimetry
Calorimetry of the palladium–deuterium–heavy water system (Fleischmann et al.) 293
Carbon dioxide
The influence of temperature on the kinetics and mechanism of "reduced" CO_2 electrooxidation on electrodispersed Pt in 0.5 M H_2SO_4 and 1 M H_3PO_4 (Marcos et al.) 99
Chromium hexacyanoferrate
A new zeolitic thin film based on chromium hexacyanoferrate on conducting substrates (Jiang et al.) 389
Composite-plate electrodes
Electrolysis using composite-plate electrodes. Part II. Electrooxidation of alcohols at a hydrophobic nickel/poly(tetrafluoroethylene) composite-plated anode (Kunugi et al.) 385
Counter-ion transport
Influence of the water content on the kinetics of counter-ion transport in perfluorosulphonic membranes (Pourcelly et al.) 43
Cyanide adsorption
Absorption of electrolytic hydrogen and deuterium by Pd: the effect of cyanide adsorption (McBreen) 279
Cytochrome *c*
Electrical communication between horse heart cytochrome *c* and electrodes in the presence of DNA or RNA (Ikeda et al.) 179

Deuterium
Absorption of electrolytic hydrogen and deuterium by Pd: the effect of cyanide adsorption (McBreen) 279
Calorimetry of the palladium–deuterium–heavy water system (Fleischmann et al.) 293
Morphological differences between hydrogen-loaded and deuterium-loaded palladium as observed by scanning electron microscopy (Rolison, Trzaskoma) 375
Dimethoxyethane
Conductivities of lithium salts in a mixed solvent: comparison of conductance equations for their analysis (Bałkowska et al.) 229
DNA
Electrical communication between horse heart

cytochrome *c* and electrodes in the presence of DNA or RNA (Ikeda et al.) 179

Electrochemical impedance spectroscopy
Low-temperature EIS measurements on high T_c superconductor/solid electrolyte interfaces (Pinkowski et al.) 203

Electrochromic reaction
Change of the anodic oxide films of tungsten during the electrochromic reaction (Ohtsuka et al.) 249

Enzyme electrode
Pulsed amperometric detection of glucose using a mediated enzyme electrode (Gunasingham et al.) 349

Formaldehyde
Oscillating electrocatalytic systems. Part I. Survey of systems involving the oxidation of organics and detailed electrochemical investigation of formaldehyde oxidation on rhodium electrodes (Hachkar et al.) 81

Glucose
Pulsed amperometric detection of glucose using a mediated enzyme electrode (Gunasingham et al.) 349

Gold
Mechanism and kinetics of the cathodic reduction of In(III) ions at a gold electrode from concentrated $ZnBr_2$ solutions (Gierulska, Małyszko) 265
Solvent effect in electrochemical formation of adatom arrays of Pb on Au and the role of coadsorption of anions (Conway, Chacha) 13

Graphite
A chemically modified graphite electrode for electrocatalytic oxidation of reduced nicotinamide adenine dinucleotide based on a phenothiazine derivative, 3-β-naphthoyltoluidine blue O (Persson) 61

Heavy water
Calorimetry of the palladium–deuterium–heavy water system (Fleischmann et al.) 293

Hydrogen
Absorption of electrolytic hydrogen and deuterium by Pd: the effect of cyanide adsorption (McBreen) 279
An inversion method based on information theory applied to quantitative analysis of complex H-adatom electrodesorption voltammograms (Arvia et al.) 1
Morphological differences between hydrogen-loaded and deuterium-loaded palladium as observed by scanning electron microscopy (Rolison, Trzaskoma) 375

Hydrogen evolution reaction
Surface modifcations with heteropoly and isopoly oxometalates. Part V. Electrocatalysis of the HER in alkaline solution (Keita, Nadjo) 149

Indium
Mechanism and kinetics of the cathodic reduction of In(III) ions at a gold electrode from concentrated $ZnBr_2$ solutions (Gierulska, Małyszko) 265

Information theory
An inversion method based on information theory applied to quantitative analysis of complex H-adatom electrodesorption voltammograms (Arvia et al.) 1

Inversion method
An inversion method based on information theory applied to quantitative analysis of complex H-adatom electrodesorption voltammograms (Arvia et al.) 1

Iron
Contribution to the thermodynamics of complexes of nickel(II), iron(II) and iron(III) with 1,10-phenanthroline and 2,2′-bipyridine in the two-phase water–nitrobenzene extraction system (Makrlík, Vañura) 159

Ising lattice
Influence of the geometry of a 2D Ising lattice gas on its phase diagram (Kharkats, Retter) 363

Isotopic substitution
Determination of in-situ solvent transport by isotopic substitution in an osmium polymer film using a quartz crystal microbalance (Kelly et al.) 185

Lead
Solvent effect in electrochemical formation of adatom arrays of Pb on Au and the role of coadsorption of anions (Conway, Chacha) 13

Lithium salts
Conductivities of lithium salts in a mixed solvent: comparison of conductance equations for their analysis (Bałkowska et al.) 229

Mercury
Kinetics of cathodic reduction of adsorbed material. The reduction of midazolam at mercury electrodes (Ribes, Osteryoung) 125
Methanol
High photovoltages arising from n-silicon/methanol junctions studied by the temperature dependence of open-circuit photovoltages (Kobayashi et al.) 239
Midazolam
Kinetics of cathodic reduction of adsorbed material. The reduction of midazolam at mercury electrodes (Ribes, Osteryoung) 125
Morphology
Morphological changes of polyaniline introduced during chemical preparation (Michaelson et al.) 191
Morphological differences between hydrogen-loaded and deuterium-loaded palladium as observed by scanning electron microscopy (Rolison, Trzaskoma) 375
Multiple square wave voltammetry
Multiple square wave voltammetry: experimental verification of the theory (Krulic et al.) 215

Nafion
Conductivity of Nafion membranes at low temperatures (Uosaki et al.) 163
Influence of the water content on the kinetics of counter-ion transport in perfluorosulphonic membranes (Pourcelly et al.) 43
3-β-Naphthoyl-toluidine blue O
A chemically modified graphite electrode for electrocatalytic oxidation of reduced nicotinamide adenine dinucleotide based on a phenothiazine derivative, 3-β-naphthoyltoluidine blue O (Persson) 61
Nickel
Contribution to the thermodynamics of complexes of nickel(II), iron(II) and iron(III) with 1,10-phenanthroline and 2,2′-bipyridine in the two-phase water–nitrobenzene extraction system (Makrlík, Vañura) 159
Electrolysis using composite-plate electrodes. Part II. Electrooxidation of alcohols at a hydrophobic nickel/poly(tetrafluoroethylene) composite-plated anode (Kunugi et al.) 385
Nicotinamide adenine dinucleotide
A chemically modified graphite electrode for electrocatalytic oxidation of reduced nicotinamide adenine dinucleotide based on a phenothiazine derivative, 3-β-naphthoyltoluidine blue O (Persson) 61

Open-circuit photovoltages
High photovoltages arising from n-silicon/methanol junctions studied by the temperature dependence of open-circuit photovoltages (Kobayashi et al.) 239
Oscillating electrocatalytic systems
Oscillating electrocatalytic systems. Part I. Survey of systems involving the oxidation of organics and detailed electrochemical investigation of formaldehyde oxidation on rhodium electrodes (Hachkar et al.) 81
Osmium
Determination of in-situ solvent transport by isotopic substitution in an osmium polymer film using a quartz crystal microbalance (Kelly et al.) 185
Oxometalates
Surface modifications with heteropoly and isopoly oxometalates. Part V. Electrocatalysis of the HER in alkaline solution (Keita, Nadjo) 149

Palladium
Absorption of electrolytic hydrogen and deuterium by Pd: the effect of cyanide adsorption (McBreen) 279
Calorimetry of the palladium–deuterium–heavy water system (Fleischmann et al.) 293
Morphological differences between hydrogen-loaded and deuterium-loaded palladium as observed by scanning electron microscopy (Rolison, Trzaskoma) 375
Perfluorosulphonic membranes
Influence of the water content on the kinetics of counter-ion transport in perfluorosulphonic membranes (Pourcelly et al.) 43
Phase diagram
Influence of the geometry of a 2D Ising lattice gas on its phase diagram (Kharkats, Retter) 363
Phenanthroline
Contribution to the thermodynamics of complexes of nickel(II), iron(II) and iron(III) with 1,10-phenanthroline and 2,2′-bipyridine in the two-phase water–nitrobenzene extraction system (Makrlík, Vañura) 159
Phenothiazine
A chemically modified graphite electrode for electrocatalytic oxidation of reduced nicotinamide adenine dinucleotide based on a phenothiazine derivative, 3-β-naphthoyltoluidine blue O (Persson) 61
Photovoltages
High photovoltages arising from n-silicon/

methanol junctions studied by the temperature dependence of open-circuit photovoltages (Kobayashi et al.) 239

Platinum
The influence of temperature on the kinetics and mechanism of "reduced" CO_2 electrooxidation on electrodispersed Pt in 0.5 M H_2SO_4 and 1 M H_3PO_4 (Marcos et al.) 99

Polyaniline
Morphological changes of polyaniline introduced during chemical preparation (Michaelson et al.) 191

Poly(tetracyanoquinodimethane)
A quartz crystal microbalance study of the sorption of ions and solvent molecules in poly(tetracyanoquinodimethane) electrodes (Inzelt) 171

Poly(tetrafluoroethylene)
Electrolysis using composite-plate electrodes. Part II. Electrooxidation of alcohols at a hydrophobic nickel/poly(tetrafluoroethylene) composite-plated anode (Kunugi et al.) 385

Quartz crystal microbalance
Determination of in-situ solvent transport by isotopic substitution in an osmium polymer film using a quartz crystal microbalance (Kelly et al.) 185
A quartz crystal microbalance study of the sorption of ions and solvent molecules in poly(tetracyanoquinodimethane) electrodes (Inzelt) 171

Rhodium
Oscillating electrocatalytic systems. Part I. Survey of systems involving the oxidation of organics and detailed electrochemical investigation of formaldehyde oxidation on rhodium electrodes (Hachkar et al.) 81

RNA
Electrical communication between horse heart cytochrome *c* and electrodes in the presence of DNA or RNA (Ikeda et al.) 179

Silicon
High photovoltages arising from n-silicon/methanol junctions studied by the temperature dependence of open-circuit photovoltages (Kobayashi et al.) 239

Solid electrolyte
Low-temperature EIS measurements on high T_c superconductor/solid electrolyte interfaces (Pinkowski et al.) 203

Solvent effect
Solvent effect in electrochemical formation of adatom arrays of Pb on Au and the role of coadsorption of anions (Conway, Chacha) 13

Superconductor
Low-temperature EIS measurements on high T_c superconductor/solid electrolyte interfaces (Pinkowski et al.) 203

Surface modifications
Surface modifications with heteropoly and isopoly oxometalates. Part V. Electrocatalysis of the HER in alkaline solution (Keita, Nadjo) 149

Tungsten
Anodic dissolution of tungsten in alkaline buffered borate solutions (Ortiz, López-Teijelo) 369
Change of the anodic oxide films of tungsten during the electrochromic reaction (Ohtsuka et al.) 249

Water
Influence of the water content on the kinetics of counter-ion transport in perfluorosulphonic membranes (Pourcelly et al.) 43

Zeolitic thin film
A new zeolitic thin film based on chromium hexacyanoferrate on conducting substrates (Jiang et al.) 389

Zinc bromide
Mechanism and kinetics of the cathodic reduction of In(III) ions at a gold electrode from concentrated $ZnBr_2$ solutions (Gierulska, Małyszko) 265